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## ABSTRACT

The document provides occupational information intended for use in elementary schools and possibly junior high schools. It lists occupations typically identified as being part of the 15 U.S.O.E. occupational clusters. Occupations listed are those that are most common to the cluster, and, generally, those common to Iowa communities. Four levels of occupations form the structural basis of the document; (1) self--those occupations directly affecting the student, (2) family or self--those occupations directly affecting the student's family through a service or product, (3) family or community--those occupations affecting the student indirectly, and (4) unknowns--those occupations unfamiliar to the student or dealing with more abstract types of work and products. (MW)

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# Models for Career Education in Iowa



## **SELECTED OCCUPATIONS BY CLUSTERS FOR USE IN ELEMENTARY SCHOOLS**

W. D. Schuermann

Iowa



a place  
to grow

Department of Public Instruction

004083

ED109314

# Models for Career Education in Iowa



## SELECTED OCCUPATIONS BY CLUSTERS FOR USE IN ELEMENTARY SCHOOLS

Conducted Under Research and Exemplary Grants  
From Career Education Division  
Department of Public Instruction  
Grimes State Office Building  
Des Moines, Iowa 50319

Under Supervision of

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College of Education  
Department of Agricultural Education  
Ames, Iowa 50010

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Grimes State Office Building  
Des Moines, Iowa 50319

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## PREFACE

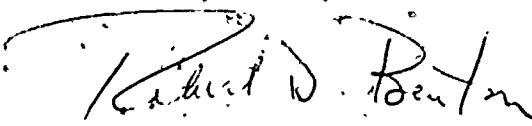
Career Education - Is it good for kids? -- That's a question that has prompted many of us to search for a greater understanding of the concept and to reassess the types of experiences our educational programs provide. This search is resulting in a growing commitment to assure curriculum objectives and activities that provide career education experiences for all students.

An exemplary project, Models for Career Education in Iowa, was initiated in 1971 thru the Iowa Department of Public Instruction. The purpose of the effort was to research, define and describe an emerging concept of career education and to suggest possible approaches for implementation in grades K-8. In 1972 the project was expanded to include the curriculum of high school students.

The project is sponsored by the Iowa Department of Public Instruction in cooperation with Iowa State University and nine local school districts. The project staff under the direction of Dr. Alan Kahler, Iowa State University, is working with the following local schools: Shenandoah, Humboldt, Davenport, Marshalltown, Carroll, Sheldon, Osceola, South Winneshiek and Springville Community School Districts. The third party evaluation is being provided by the Iowa Center for Research in School Administration under the leadership of Dr. Ralph Van Dusseldorp and Dr. Walter Foley.

A series of workshops were conducted involving participating school staff and outside resource persons with various backgrounds and expertise. These workshops have provided a multi-discipline approach in establishing understanding and agreement of a set of basic objectives of career education. During the summer of 1973, staff from each of the nine districts participated in workshops to prepare first draft curriculum materials for use in the respective school settings during the 1973-1974 school year.

The publications which follow were developed as part of the responsibility of project participants and staff to provide visibility to the findings and accomplishments of the project. These guidelines and instructional materials are provided at this time to assist local school personnel interested in initiating programs, services, and activities for their students.

  
Robert D. Benton, Ed.D.  
State Superintendent of  
Public Instruction

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## ACKNOWLEDGEMENTS

The content of this publication is based on experiences encountered by teachers and administrators in the exemplary project entitled "Models for Career Education in Iowa." Much credit is due personnel in the nine local schools who tested these procedures in their systems and provided the documentation needed to validate the implementation process. Appreciation is expressed for the assistance and contributions of project participants and staff in the development of this publication.

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Agricultural Education  
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Office Occupations  
Elementary  
Guidance  
Health  
Distributive  
Curriculum

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## TO THE TEACHER

Information provided on the following pages lists occupations typically identified as being a part of the fifteen U. S. Office of Education Occupational Clusters. Occupations listed are those that are most common to the cluster and in the main, those that are found in most communities in Iowa. The lists are by no means intended to be complete listings of all occupations within the cluster. The user of this publication is encouraged to add to the lists where he or she feels it appropriate to do so. A recommended resource for identifying additional occupations is The Dictionary of Occupational Titles.

Little cross-referencing has been done. You may note that some occupations listed could also be listed in other clusters. Your teaching objectives should dictate in which cluster the occupations being considered should be covered.

The criteria used to set up the four levels of occupations were as follows:

- Level I (Self) lists those occupations that the student has direct contact with during his day and those that directly affect his way of life. These occupations should be very visible occupations where something is being made or done that the student can see.
- Level II (Family or Self) lists those occupations that directly affect the student or his family. These occupations should be those the student can visualize in a product or service.
- Level III (Family or Community) lists those occupations that affect the student indirectly through his family or the community. These occupations should lend themselves to field trips where the student hasn't been before.
- Level IV (Unknowns) lists those occupations that the student may not be aware of at all. These occupations deal with more abstract types of work and products.

The lists of occupations on the following pages are meant to provide assistance to elementary and possibly junior high school teachers. In situations where teachers teach in a given subject matter area, they will need to select occupations that fit their subject matter areas from all cluster areas.

The publication was compiled by Phyllis Ahrends, assisted by Dr. Eleanore Kohlmann of Iowa State University, and the Career Education project staff.

# AGRI-BUSINESS AND NATURAL RESOURCES GLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Farmer	Florist - Nurseryman	Livestock - Handler	Park Naturalist
Gas Station	Gas Truck Driver	Fire Lookout	Agricultural Engineer
Attendant	Seed & Feed Salesperson	Farm Equipment Mechanic	Forest Ranger
Livestock & Commodities	Elevator Operator	Forest Fire Fighter	Substation Operator (Power Co.)
Farmstead Owner	Cattle Auctioneer	Powerhouse Runner	Mining Engineer
Butcher	Slaughter House Worker	Troubleman (Power Station)	Draftsman (Mining)
Grocery Store	Farmer	Blastor	Geologist
Greenskeeper	Power Lineman	Augerman (Mining)	Seismographer
Groundsman	Gas Distribution Work	Weigher (Batch, Grain)	(Petroleum) Geophysicist
	Nursery Worker	Petroleum Field Worker	Extension Agent
	Sod Layer	Miner	Soil Scientist
	Tree Planter	Machinery Salesperson & Serviceperson	Fish Farmer
	Nurseryman	Milling Worker (Grain Elevator)	Soil Conservationist
		Game & Fish Warden	Bookkeeper
		Locker Plant Butcher	Farm Loan Co. Employee
		Nursery Salesperson	Artificial Breeding Technician
		Soil Scientist	Wholesaler
		Soil Conservationist	Horticulturist
			Agricultural Engineer

# COMMUNICATION AND MEDIA CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Telephone Repairman, Installer Television Repairman Telegram (Delivery Man, Messenger) Telephone Operator Disc Jockey TV Announcer Radio Announcer Performer Mail Carrier Librarian	Telegrapher Telegraph Agent Sign Painter Customer Service Reporter News Photographer Distribution Clerk Repafrman Man, Messenger Telephone Operator Disc Jockey TV Announcer Radio Announcer Performer Mail Carrier Librarian	Telephone Lineman Layout Person (News Media) Film Developer Job Printer Make-up Person Composing Room Person Producer and Director Library Technician Writer Editor (News- paper, Film) Typesetter Broadcast Technician Columnist Cameraman Recording Engineer Engineer Mail Sorter Mail Handler Addressing Machine Operator Projectionist Printing Pressman & Assistant	Superintendent of Central Telephone Office Telephone Answering Service Operator Systems Analyst Computer Programmer Photograph Finisher Electro Typewriter Book Binder News Analyst News Specialist Copy Writer Proofreader Advertising Execu- tives Advertising Layout Person Program Director (News-Media) Set Designer Satellite Trans- mission Special- ist Photo Engraver Electrotypewriter & Stereotypewriter Lithographer Photographic Laboratory Techni- cian

# CONSTRUCTION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Glazer	Carpenter - Joiner	Welder	Architectural
Plumber	Electrician	Pipe Fitter	Modeler
Brick Layer	Plasterer	Septic Tank Installer	Stonemason
Carpenter	Bulldozer Operator	Well Digger	Interior Designer
Dump Truck Man	Scraper Operator	Ship Builder	Decorator
Painter, Paper	Powershovel	Heating-Cooling	Architect
Hanger	Operator	System Installer	Surveyor
	Trench Digger	Sewer Layer	Sewer Foreman
	Operator	Asbestos &	Civil Engineer
	Power Lineman	Insulating Worker	Construction
	Gas Distribution	Operating Engineer	Engineer
	Worker		Maintenance and
	Tile Setter		Repair
	Carpet Layer		
	Concrete Worker		
	Road Construction		
	Worker		
	Cabinet Maker		
	Real Estate Broker		
	and Salesperson		
	Floor Covering		
	Installer		

# CONSUMER & HOME-MAKER CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Babysitter	Specialist Teacher	Day Care Center Helper	House Parent
Custodian	Gardener	Infant and Child Nurse	Food Scientist
Housekeeper (Home)	Home-Health Aide	Equipment Specialist	Caseworker
Painter	Laundress, Launderer	Maids in Hotel-Motel	Home Agent
Paperhanger	Upholsterer	Drapery Measurer	Housekeeper
Waiter, Waitress	Butcher	Furniture Maker	(Hotel-Motel)
Short Order	Baker	Chef-Various Cook	Architect
Cook	Presser in a Dry	Hostess	Interior Designer
Shoemaker	Cleaners	Dry Cleaner Machine	Dietician
Counter Person at	Alterations Person in	Operator	Restaurant or Hotel
the Laundry or	Store	Patcher in Laundry	Manager
Dry Cleaner	Nursery School	Sewing Machinist in	Model
Bakery Worker	Teacher	Factory	Caterer
Homemaker		Knitting or Weaving	Designer
		Machine Operator	Display Worker
		Extension Home	(Store)
		Economist	Factory Foreman
		Caterer	or Supervisor
		Cake Decorator	Industry Home
		Home Economics	Economist
		Teacher	Researcher
		Upholsterer	Clothing Designer
		Utility Home Economist	Product Development
		& Demonstrator	Product Tester
		Store Buyer	Family Counselor
			Consumer
			Counselor
			Buyer - Clothing,
			Food, Etc.

# ENVIRONMENT CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Land Surveyor	Prospector	Minerologist	Earth Scientist
Snow Shoveler	Park Caretaker	Seismologist	Geologist
Weather Reporter	Weather Observer	Soil Scientist	Geodesist
Health Inspector	Field Health Officer	Assayer	Photo Geologist
Custodian	Sanitarian	Soil Conservationist	Agriculture Engineer
Mosquito Sprayer	Waste Water Treatment Plant Operator	Meteorologist	Smoke Tester
Architect	Fumigator	Climatologist	Aeronautical Engineer
Refuse Collector	Urban Planner	Astronaut	Air Analyst
Exterminator	Incinerator Plant Attendant	Food Inspector	Taxicologist
Camp Counselor	Recycling Operator	Horticulturalist	Environmental Tester
Fire Lookout	Community Development Director	Landscape Architect	Pathologist
Lighthouse Keeper	Nurseryman	Environmental Teacher	Bacteriologist
Water Analyst	Field and Game Warden	Sanitary Engineer	Industrial Health Engineer
	Forest Ranger	Civil Engineer	
	Park Ranger	Game Keeper	Social Ecologist
	Water Treatment Plant Operator	Fish Hatchery Manager	Biostatistician
	Marine Mammal Trainer	Animal Ecologist	Geneticist
	Watershed Tender	Forest Ecologist	Pharmacologist
		Huntsman	Industrial Waste Inspector
		Oceanographer	Zoologist
		Aquatic Biologist	Animal Husbandry
		Marine Surveyor	Parasitologist
			Hydrographer
			Waster Master
			Industrial Hygiene Chemist
			Industrial Hygiene Engineer



# FINE ARTS AND HUMANITIES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Music, Art, Dance Teacher Choir Leader (Church) Piano Teacher Organist Librarian	Band Director Photographer Artist Minister	Musician - Dance Band Cameraman (TV) Advertising Layout Person Reporter Editor Rewriter Copywriter Dancer Singer Cartoonist Florist Circus Performer Performer	Commercial Artist Headstone Sculptor Choreographer Arranger (Music) Music Copyist Translator Anthropologist Archeologist News Analyst Critic Poet Writer Industrial Designer Advertising Designer Designer - all types Set Designer Display Restorer Musician Theologian

# HEALTH CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Doctor (G.P.)	County Health Officer	Sewage Disposal Engineer	Health Administrator
Nurse	Dentist	Doctor (Specialist)	Histologist
Nurses' Aide	Optician	Nurse (Specialist)	Technician
Ambulance Driver	Ambulance Attendant	Dental (Technician)	Hospital Engineer
Receptionist	Pharmacist & Helper	Assistant	Hospital Adminis-
(Dr., Dentist, etc.)	Audiologist	Ward Supervision	trator
Dental Assistant	Dental Hygienist	(Mental Institute)	Therapist -
	Health Education	First-Aid Attendant	Occupational
		Emergency Entrance	Physical
		Attendant	Recreational
		X-Ray Technician	Sanitary and Safety
		Medical Clerk,	Inspector
		(Office Worker)	Psychiatrist
		Surgical Technician	Psychologist
		Blood Bank	Medical
		Technician	Librarian
		Health Insurance	Oral Pathologist
		Personnel	Anesthesiologist
		Executive Housekeeper	Medical Technolo-
		Home Health Aide	gist (Bacteriol-
		Hospital Laundry	ogy, Hematology,
		Manager	Serology, Histology)
		Hospital Librarian	Histological
		Inhalation Therapist	Illustrator
		Optometric Technician	X-Ray Developer
		& Assistant	All Pollution
		Physician	Control Technician
		Assistant	Biochemist
			Biomedical
			Engineer
			Certified Laboratory
			Assistant
			Clinical Chemist

# HEALTH CLUSTER continued

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
			<p> Dietician  Electrocardiograph  Technician  Electrocephalo-  graphic  Technician  Food Service  Supervisor  Medical Illustrator  or Photographer  Medical Records  Librarian  Micro Biologist  Nutritionist  Psychiatric Aide  Rehabilitation  Counselor </p>

# MANUFACTURING CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Secretary	Quality Control Worker	Efficiency Expert	Marketing Research
Truck Driver	Machine Operator	Expediter	Worker
Parts Clerk	Inspector	Shipping & Receiving Clerk	Industrial Traffic
Salesperson	Stock Clerk	Tool & Die Maker	Set Up Person
	Bookkeeper	Model Maker	Technical Worker
	Foreman	Draftsman	
	Industrial Machinery Repairman	Engineer	
	Assembler	Technician	
	Production Supervisor	Instrument Repairman	
	Maintenance Personnel	Maintenance Electrician	
		Industrial Designer	
		Chemist	
		Biochemist	
		Physicist	
		Programmer	
		Buyer	
		Purchasing Agent	
		Accountant	

# MARINE SCIENCE CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Fisherman	Diving Fisherman	Oceanographer	Aquatic Biologist
Fishing Guide	Fish Bin Tender	Marine Technician	Geochemist
Trapper	Fishing Instructor	Shellfish Bedman	Hydrologist
Live Bait Supplier	Pearl Diver	Sponge Diver	Limnologist
Fish Farmer	Shellfish Grower	Trap Tender	
Wharf Attendant	Tropical Fish Dealer	Net Man	Fishery Bacteriologist
Motorboat Operator	Dock Master	Kelp Cutterman	Whale Harpooner
Bridge Operator	Barge Captain	Fish Culturist	Crab Inspector
Skin Diver	Sounder	Frog Grower	Walrus Hunter
Salvage Diver	Lock Tender	Boatswain	Fishing Rod Assembler
	Seaman	Barge Loader	
	Lighthouse Keeper	Long Shoreman	Alligator Farmer
	Dredge Operator	Motorboat Mechanic	Float Master
	Underwater Photographer	Deck Engineer	Port Captain
		Marine Surveyor	Marine Mining
		Hydraulic Draftsman	Hydrographer
			Glaciologist
			Marine Architect
			Marine Engineer

# MARKETING & DISTRIBUTION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Door to Door Salesperson Clerk in Store Billposter Delivery Person	Salesperson Carpet Cutter & Fitter Display Person/ Window Trimmer Model Dresser Truck Driver Route Person	Auctioneer Coin Vending Machine Collector Direct Mail Specialist Circulation Manager (Newspaper) Wedding Consultant Shipping Clerk Storekeeper Purchasing Agent Buyer Dispatcher	Home-Service Representative Solicitor Contracts Manager Advertising Manager Account Executive Market Researcher Personal Shopper Floor Manager Market Specialist

## OFFICE CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Cashier	Bookkeeper	Accountant	Systems Analyst
Coin Wrapper	Construction Estimator	Computer Operator	Claims Adjustor
Production Inspector	Broker	Computer Programmer	Microfilm Mounter
Telephone Operator	Billing Clerk	County Auditor	Traffic Clerk
	Bank Teller	Credit Analyst	Marketing Research Worker
Secretary	Payroll Clerk	Mortgage Clerk	Underwriter
Receptionist	Customer Service Salesperson	Title Searcher	Foreign Language Stenographer
Bank Cashier	Medical Secretary	Purchasing Agent/Buyer	Technical Secretary
Librarian	Office Machine Operator	Insurance Agent	Statistician
Parts Clerk	Operator	Court Reporter	Compiler
Hotel Clerk	Bill Collector	Real Estate Salesperson	Fan Mail Clerk
Grocery Checker	File Clerk	Public Stenographer	Braille Duplicating Machine Operator
Salesperson	Clerk Typist	Social Secretary	Actuary Clerk
Postal Clerk	Stenographer	Legal Secretary	Chart Clerk
Business Proprietor	Addressing Clerk		Medical Record Librarian
	Telephone Operator		Telegraph Operator
	Key Punch Operator		Arbitrator
	Traffic Control	Sorter	Organizer
	Manager (Streets, Lights)	Office Machine Operator	Job Analyst
	Sales Manager	Repossessor	Labor Relations Consultant
	Supermarket Manager	Chief Timekeeper	Securities Salesperson
	Stock Clerk	Stenotype Operator	Corporation President
	Independent Owner	Personnel Clerk	Hospital Administrator
		Fingerprint Clerk	
		Shipping Clerk	
		Proofreader	
		Verifier Operator	
		Advertising Manager	
		Loan Counselor	
		Personnel Manager	

## OFFICE CLUSTER continued

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
		Credit Manager Administrative Secretary Fund Raiser Personnel Trainer Public Relations Manager Junior Executive Business Partner Franchise Owner Board of Director Member	



# PERSONAL SERVICES CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Barber	Ambulance Driver	Funeral Director	Physical Therapist
Beautician	Hot or Cold Room Attendant	Finnish, Russian or Turkish Masseuse	Embalmer
Pet Shop Owner	Housekeeper	Veterinarian	Make-up Man or Woman (TV, Funerals, Beauty Shops)
Dog Pound Attendant	Horseshoer	Attorney	Occupational Therapist
Paper Carrier	Dog Trainer	Bartender	Recreational Therapist
Waiter, Waitress	Manicurist		Rehabilitation Therapist
	Cook & Chef		

# PUBLIC SERVICES CLUSTER

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SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
School Crossing Guard	Toll Bridge Attendant/Collector	Bank, Cashier/Teller	Major
Patrol Officer	Bailiff	City Council Person	City Manager
Fire Fighter	Watchman	Highway Maintenance Person	Tax Assessor
Meter-Maid	Police Sergeant	Lawyer	Union Labor Representative
School Bus Driver	Shopping	Judge	Warden
Civil Defense	Investigator	Court Reporter	Parole Officer
Warden	Rural-Mail Carrier	Recreation Center	Probation Officer
Mail Carrier	Post Office Clerk	Director	Fire Inspector
Librarian	Life Guard	Detective	Head Matron (Police)
Teacher	Social Worker	Jailer	Harbor Police
Guidance	Minister	Armored Car Guard	Corrections Officer
Counselor		Sheriff/Marshall	4-H Club Agent
Custodian		Extension Service	Home Service
		Specialist	Director
		District Extension Service	College Faculty
		Specialist Teacher	Member
		Soldier, Sailor, Airman, etc.	Dean of Students/College
		Mailing Supervisor	WAC, WAF, WAVE, SPAR
		Diesel Engine Operator	Compressor Engine
		Boiler Operator	Coal Substation
		Electric Cable Maintenance Person	Attendant
		Incinerator Foreman	Turbine Attendant
		Community Aid Worker	Sewage Plant Operator
		Welfare Worker	Customs Official
			Students Personnel Worker
			Consumer Protection Agency Worker
			FBI Agent

# RECREATION & HOSPITALITY CLUSTER

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SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Ticket Taker	Bowling Alley	Drive-in Theatre	Rodeo Performer
Usher	Attendant	Attendant	Theatre Performer
Ticket Dispenser	Golf Range Attendant	Projectionist	Horse Track Worker
Coach (Summer	Lobby Attendant	Drama Teacher	Conductor (Music)
Recreation)	Clown (Circus Per-	Coach (Athletic)	Park Supervisor
Life Guard	former)	Camp Counselor	Sports Equipment
	Sporting Goods Store	Sports Announcer	Manufacturer
	Manager's salesperson	Professional	Sports Columnist
	Umpire	Athlete	
	Referee	Greens Keeper	
	Caddie	Hunting & Fishing	
		Guide	

# TRANSPORTATION CLUSTER

SELF	FAMILY OR SELF	FAMILY OR COMMUNITY	UNKNOWN
Truck Driver	Taxi Driver	Warehouse Foreman	Traffic Inspector
Bus Driver	Auto Mechanic,	Safety Engineer	Traffic Maintenance
Parking Lot Attendant	Service Station Person	Signal Erector	Officer
Car Wash Worker	Pilot (Airline)	Diesel Mechanic	Missile Control
Airline Stewardess	Reservations Agent	Navigator	Pilot
Ticket Agent	Travel Agent	Traffic Clerk	Airplane Mechanic
Toll Collector	Traffic Rule Clerk	Flight Information Expeditor	Test Pilot
Railroad Conductor	Railroad Station Agent	Railway Express Agent	Check Pilot
Motorboat Operator	Ship's Pilot	Section Gang Worker	Schedule Analyst
Ferryboat Operator		Brakeman	Air Traffic Controller
		Fireman	Locomotive Engineer
		Longshoreman	Ship Captain
		Able Seaman	Deck Captain
		Stevedore	Barge Captain
			Quartermaster